

Abstract of the Disclosure

A method and apparatus for increasing the size of small particles for a condensation particle counter, in which method a particle containing aerosol flow is divided into a sample flow and a sheath flow. The sheath flow is filtered, saturated with vapor and formed to a vortex flow in a saturator which vortex-flow continues in a condenser. The sample flow is introduced to the centre of the vortex flow of the saturated sheath flow in the condenser for causing the vapor in the saturated sheath flow to condense on the particles in the sample flow thus increasing the size of the particles.